

## U.S. LHC Accelerator Project- Progress 1st Quarter FY 2004



Above – Q2 quadrupole at Fermilab Technical Division (TD) Industrial Center. Fabrication is completed and magnet is being moved to the TD magnet test facility. 4 out of 9 Q2 quads have been completed by Fermilab (5<sup>th</sup> is in cryostat).

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Left: First BNL-produced D2 dipole arriving at CERN.

Below: First D3 dipole being prepared for insertion into its cryostat at BNL.

BNL has completed 18 out of 20 dipole magnets (D1, D2, D3 and D4 designs). 15 magnets have been tested and 7 are at CERN.

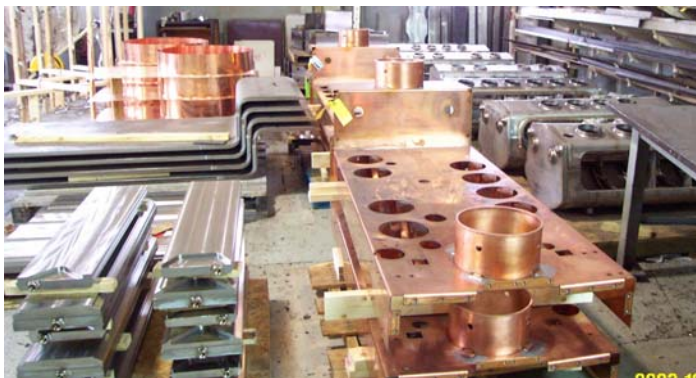
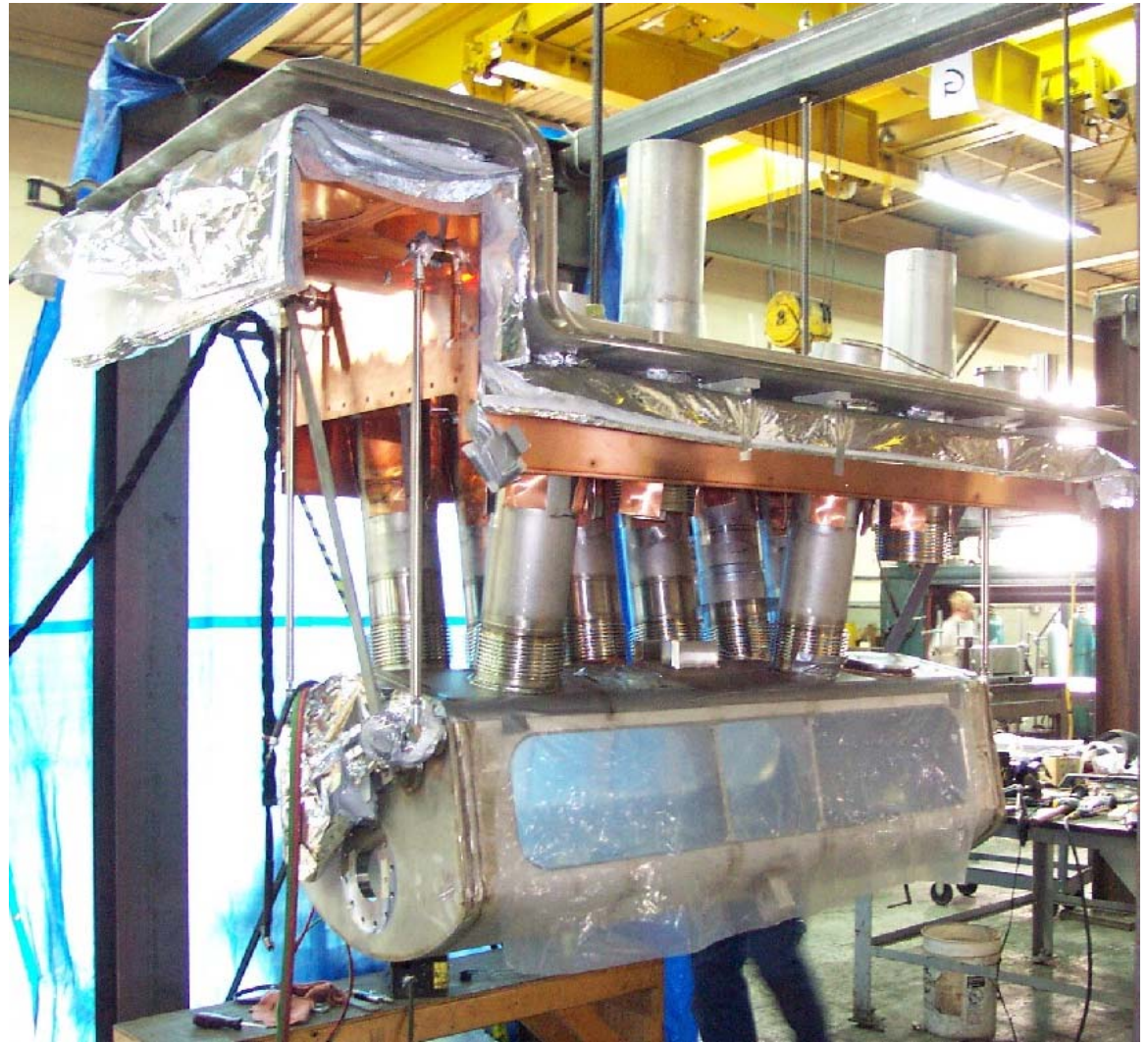




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LBNL is responsible for producing 8 highly specialized Distributed Cryogenic Feedbox (DFBX) units. These are being produced in industry, with LBNL providing design and some parts.

Right: DFBX helium vessel mounted to underside of top plate at Meyer Tool. Cylinders connecting the two pieces are chimneys for magnet and corrector power leads.



Left: Completed DFBX parts and subassemblies at Meyer Tool.